# TESSERA S4 LED PROCESSOR

Custom built for driving conventional large walls

The Brompton Technology **Tessera S4 LED processor** is the workhorse of the **Tessera** range - perfect for **large, high resolution video walls** in a rugged and compact 1U package.

The **S4** has a single DVI-D input and supports resolutions up to 1080p60. It has four **Tessera Protocol Gigabit Ethernet** outputs, with each output capable of a nominal 525K pixels at 8 bits per colour, 60Hz frame rate.

It retains **Tessera**'s class-leading quality and control with a smaller creative feature set to ensure competitive value and has strong colour controls including per-input adjustments, global brightness & gamma, and **On Screen Colour Adjustment (OSCA)** for colour mismatch corrections.
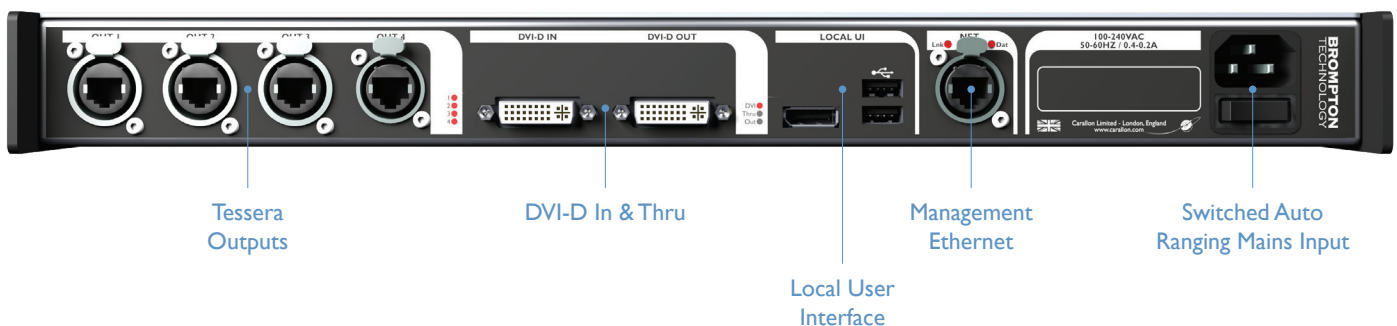
It is easy to configure fixtures within the **full HD** 1920x1080 standard canvas such as:

- Quick Association for a fast and easy way to associate large numbers of fixtures to a **Brompton** processor

- Pixel mapping that allows free placement and rotation of fixtures to 0˚ / 90˚ / 180˚ / 270˚ regardless of cabling order, and also supports multiple 'sub-fixtures' from a single Receiver Card, e.g. for LED strips/ small tiles
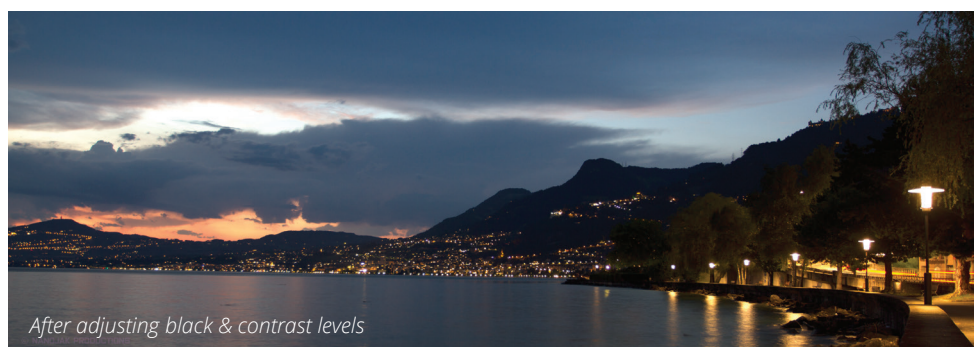
## TESSERA S4 | FRONT

Front panel status LEDs

Blackout & Freeze buttons

2 x 2.0 USB Type A

Reset

## TESSERA S4 | REAR

Tessera Outputs

DVI-D In & Thru

Management Ethernet

Switched Auto Ranging Mains Input

Local User Interface

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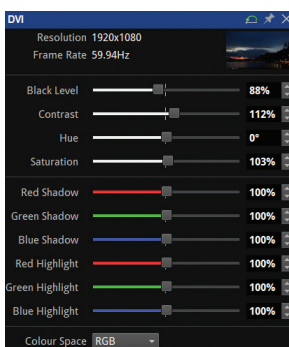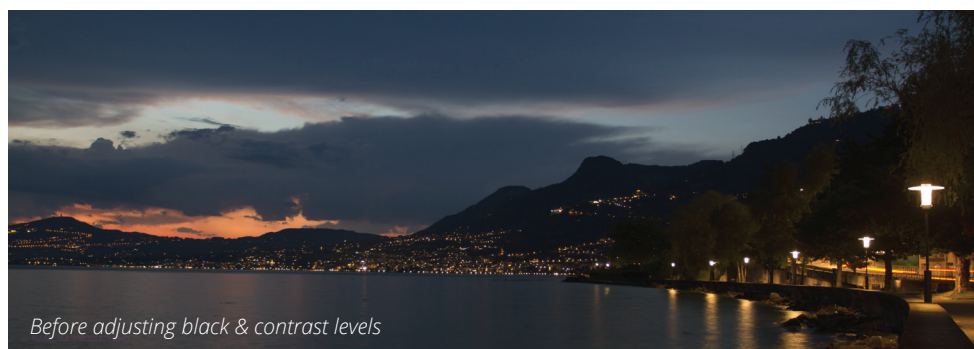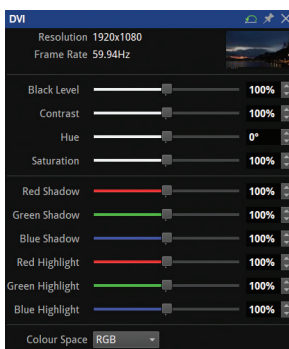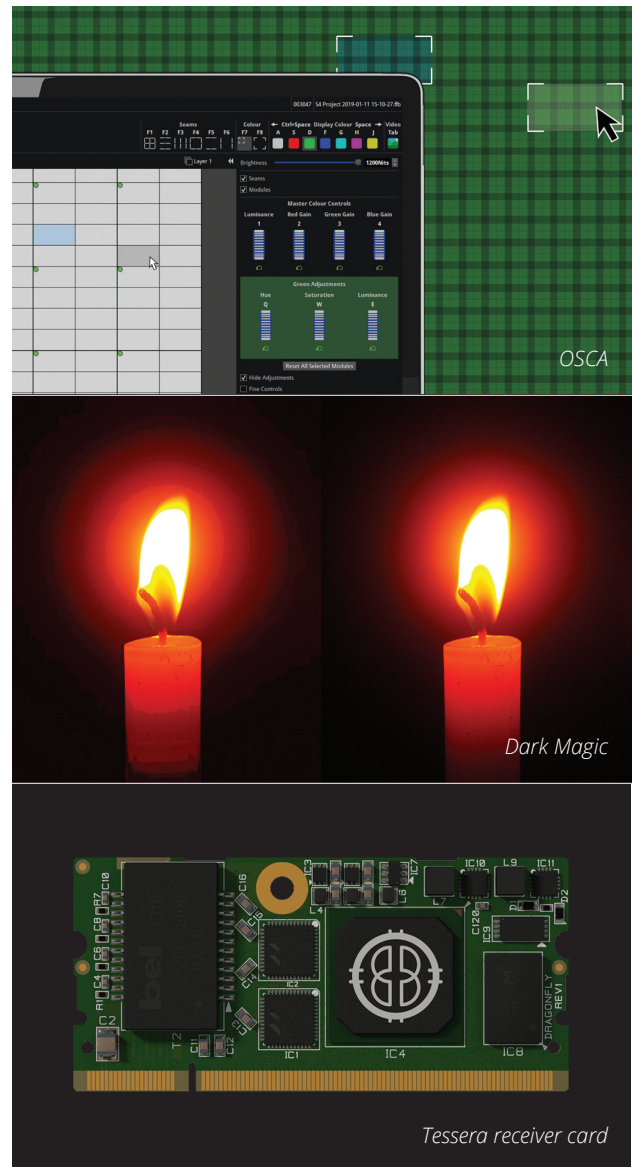
## TESSERA MANAGEMENT SOFTWARE

The **S4** is configured using the intuitive and powerful **Tessera Management Software** and makes use of the highly convenient **OSCA** and **Dark Magic** (for dark-area detailing) features. Each input can be easily configured with adjustments to global brightness and gamma.

**Tessera Management Software** gives you the option of using a remote PC (**Windows** or **Mac**) or working locally by plugging a mouse, keyboard and monitor directly into the processor.

## RECEIVER CARDS

All the processors in the **Tessera** family communicate via Gigabit Ethernet with LED panels fitted with **Tessera** receiver cards. Off-the-shelf Gigabit Ethernet networking equipment and cabling can be used. **Tessera** receiver cards are designed to fit into the vast majority of panel enclosures using a widely available DDR2 SO-DIMM socket.



*OSCA*



*Dark Magic*



*Tessera receiver card*



*Before adjusting black & contrast levels*



*After adjusting black & contrast levels*

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# TESSERA S4 LED PROCESSOR

## Full Specifications

**PHYSICAL (WxHxL)**

Unboxed:
• 482.6mm (19") x 44.5mm (1.75") x 342.9mm (13.5")

Boxed:
• 570mm (22.4") x 170mm (6.69") x 450mm (17.7")

**WEIGHT**
• Unboxed: 3.1Kg (6.8lbs)
• Boxed: 5.5Kg (12.1lbs)

**ELECTRICAL**
• Switched autoranging power supply
• 100 - 240V AC
• 50Hz - 60Hz
• 0.4 - 0.2A

**DVI-D INPUT**
• One DVI-D input
• Up to 1920 x 1080 at 60Hz
• Support for RGB and YCbCr colour spaces
• HDMI support with suitable adapter
• No HDCP support

**OUTPUTS**
• Four 1G Tessera output ports, each capable of a nominal 525K pixels at 8 bits per colour, 60Hz frame rate

**GENLOCK**
• Lock to source
• Processors genlock from source right through to panel refresh
• Frame rates from 23.98 to 60Hz

**LATENCY**
• 2 frames end-to-end system latency

**TESSERA MANAGEMENT SOFTWARE:**
• Local management using monitor, keyboard and mouse connected directly to processor
• Monitors from 1024x768 up to 1920x1080
• DP++ monitor output supports HDMI, DVI and VGA using a suitable adapter

**TESSERA REMOTE:**
• Available free for Windows PC and Mac OS
• Remote management using Windows PC or Mac connected to processor via Ethernet network
• One Gigabit Ethernet network port

**REMOTE CONTROL:**
• IP Control

**I/O**
• Two USB2.0 ports on front
• Two USB2.0 ports on rear
• One DisplayPort (DP++) monitor output

**FRONT PANEL CONTROLS**
• Five status LEDs
• Power LED
• Freeze button
• Blackout button

**WARRANTY**
• Two years

**CERTIFICATIONS**
• CE, ETL/cETL

*Brompton Technology is the market leader in LED video processing for the most demanding applications across live events, virtual production, broadcast/XR, simulation/VR, fine-pitch installations and esports. The company has won multiple awards and become a globally respected brand, known for the quality and reliability of its products and exceptional technical support. For more information, visit www.bromptontech.com.*